NATO Consultation Command and Control (NC3) Organization:
Overview and Current Issues

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NATO C3 Board
(NC3B)

NATO C3
Representatives

NATO C3
Subordinate Structure

NATO C3 Agency
(NC3A)

NATO CIS
Services Agency
(NCSA)

- NATO C3 Organization (NC3O) comprised of :
  - NC3 Board   - NC3B Substructure
  - Permanent Representatives   - NCSA
  - NC3A

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- **Senior C3 authority in NATO**
  - **Reports to the North Atlantic Council (NAC)**
  - **Composed of national reps (plus: SCs, NC3A, NCSA, ...)**
  - **C3 policy**
  - **Meets twice a year in Brussels**
- **Representatives conduct routine business**
- **Subordinate Structure:**
  - **Requirements**
  - **Interoperability**
  - **Frequency Management**
  - **INFOSEC**
  - **Info Systems**
  - **Communication Networks**
  - **Identification**
  - **Navigation**

- **Acquisition and Integration agency for NATO**
  - **Central Planning**
  - **Engineering**
  - **Design**
  - **Integration**
  - **Technical Support**
  - **Configuration Control**
- **Customer Funded (Not Common Funded)**
- **Located in:**
  - **Brussels, Belgium**
  - **The Hague, Netherlands**

NATO CIS Services Agency (NCSA)

- Newly formed from: NACOSA + local signal units

- Provides all services ... long-haul comms to Desktop service

- Operates networks

- Includes Information Assurance (INFOSEC)

- Currently developing Service Level Agreements (SLA) between NCSA and each NATO organization requiring CIS service

- **NATO Network Enabled Capability (NNEC)**
  - **10 nation funded: CA, FR, GE, IT, NL, NO, SP, TU, UK, US**
  - **Deliverables:**
    - **1 - NNEC design reference scenarios - 6 months**
      - **Operational scenarios – supports future budget decisions**
    - **2 - NNEC interoperability concepts - 12 months**
      - **Identify needed information sharing capabilities**
    - **3 - NNEC enabling elements - 15 months**
      - **Identify work areas outside the responsibilities of the NC3O**
    - **4 - Final Report - 18 months**
      - **A road map addressing further activity**

- **Outcome will shape future NATO & National C3 capabilities**
  - **New C3 capabilities will be network-capable**
  - **Information sharing methods will be constructed**

MIC Implicatio

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- **Multilateral Interoperability Programme (MIP)**

  - **C2 interface and exchange mechanisms**

  - **Models information commanders need to exchange**

  - **Interface specification for exchange of battlespace information**

  - **Independent of host C2 application**

  - **Cooperative approach w/ NATO**

FULL MEMBERS		ASSOCIATE MEMBERS			
CA	LFCS	AS	JCCS, BCSS	RO	TBD
DA	DACCIS	AU	PHOENIX	SI	TBD
FR	SICF, SIR	BE	SICBEL	SW	IS MARK SLB
GE	HEROS-2/1	CZ	GF-TCCS	TU	TKKBS
IT	SIACCON	FI	TBD	AFNORTH	
NL	ISIS	GR	HARCCIS	ACT	BiSC AIS
NO	NORTaC/NORCCIS	HU	HAVIR		
SP	SIMACET	LH	TBD		
UK	ATacS/ComBAT	PL	SZAFRAN		
US	MCS	PO	SICCE		
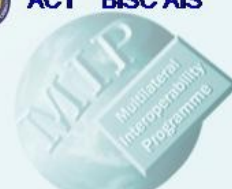
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- **MIC nations already involved**

- **IF MIP baseline is implemented…**

  - **Unprecedented interoperability between nations' organic C2 systems**

- **Cyber Defence & NATO Computer Incident Response Capability (NCIRC)**

    – **IOC 2Q 2004**

    – **Synchronizing TTPs with all the nations**

    – **Intrusion Detection System authorized**

        - **IOC 2Q 2005**

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- **Critical capability for network defence**
- **National and Allied efforts must be synchronized**

- **NATO SHF & UHF SATCOM Capability**
  - **NATO Satellites at end of life**
  - **Bidding process continues**
    - **US**
    - **European Consortium**
  - **IOC Dec 04**
- **NATO EHF SATCOM Capability (new)**
  - **Bidding process continues**
  - **IOC 2007?**

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' Will result in new SATCOM capabilities for NATO

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NC3B Current Issues (Continued)

- **GPS/Galileo Report**

  - **2002, NAC tasked NC3B:**

    "…to examine the interrelationship between GPS and Galileo RNSS systems in the context of NATO's military effectiveness and to inform the Council of its findings and recommendations"

  - **Consensus very difficult**

  - **European Commission and United States agreement pending**

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' Overlay of one signal on top of another can impede Navigation Warfare capabilities

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